

2nd Annual ADL Science & Technology Workshop

Focus on Mobile Learning for the Military

Dr. Kristy Murray
Director, ADL Co-Labs

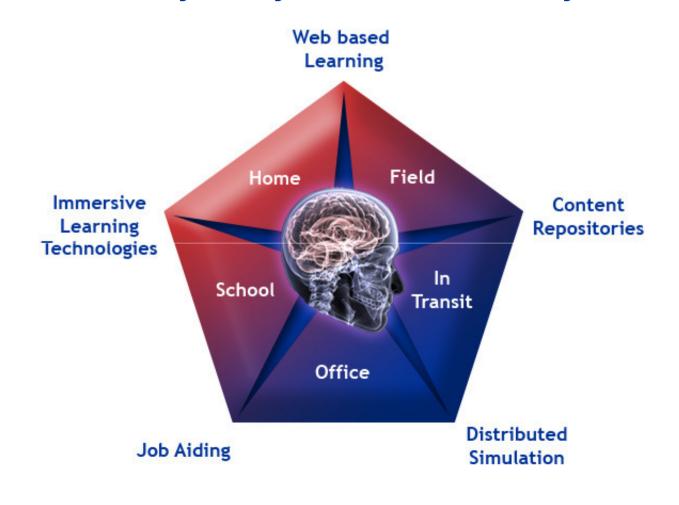
May 2010





ADL Vision

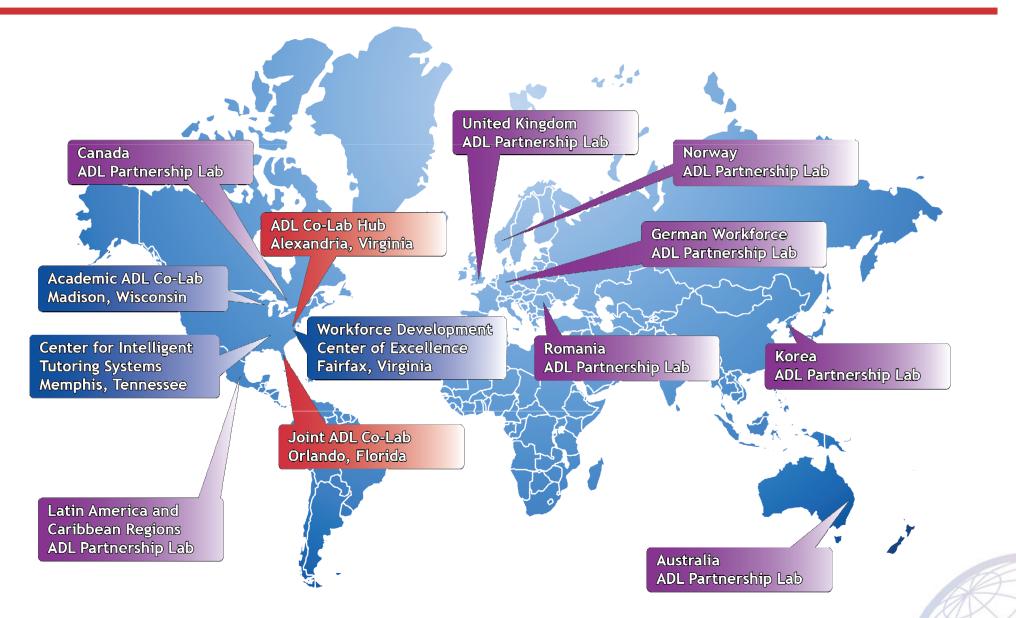
Provide access to the highest quality education and training, tailored to individual needs, delivered cost effectively, anywhere and anytime.







ADL Labs & Centers





ADL Activities

1

Continuing Focus Areas

SCORM

Repositories and Registries S1000D

2

Collaboration

3

Emerging Technology

Games
Virtual Worlds
Social Networking
Mobile





ADL Activities

1

Continuing Focus Areas

SCORM

Repositories and Registries S1000D

Collaboration

3

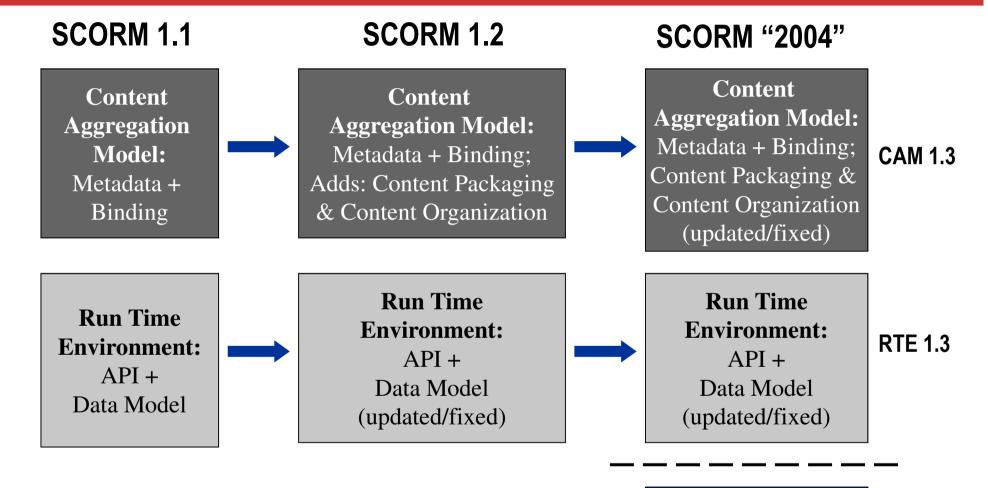
Emerging Technology

Games
Virtual Worlds
Social Networking
Mobile





SCORM Evolution



Sequencing & Navigation:
Rules and Behaviors (new)

S&N 1.3



SCORM Support

SCORM Testbed

- Learning Management Systems
- Support content testing
- Enable rapid troubleshooting
- SCORM Test Suite
 - Free download from adlnet.gov
- SCORM Helpdesk scormhelpdesk@adlnet.gov



Learning Technology Lab, Alexandria, VA



ADL Registry

A system for registering, searching, and discovering digital objects using a common set of metadata



- Content Repository



Registry



- Comunity



If you build it, they will come...

That's not entirely true.



Registry future directions

- Review and update underlying technology
- Establishing a .mil registry
- Improve user experience
 - Simplify registration
 - Focus on community repositories
 - Include Web 2.0 features (Amazon-like)
 - Focus on Assets -- not just content packages
 - Provide user-friendly documentation





S1000D and SCORM Harmonization

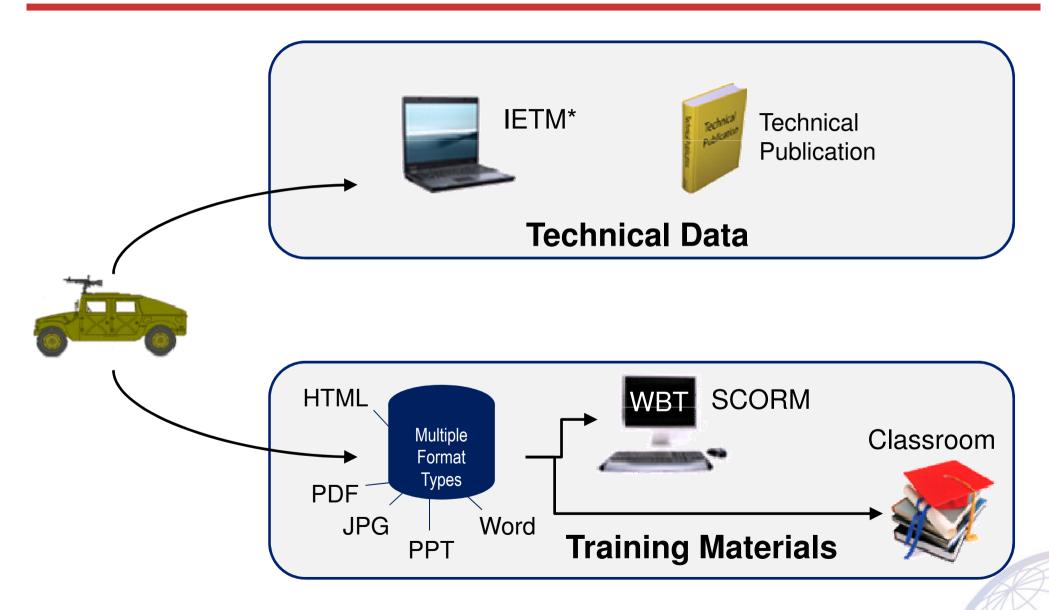
 Enables acquisition strategy to buy content one time for reuse and management

 Naval Education and Training Command (NETC) began migrating to common source database on 8 March



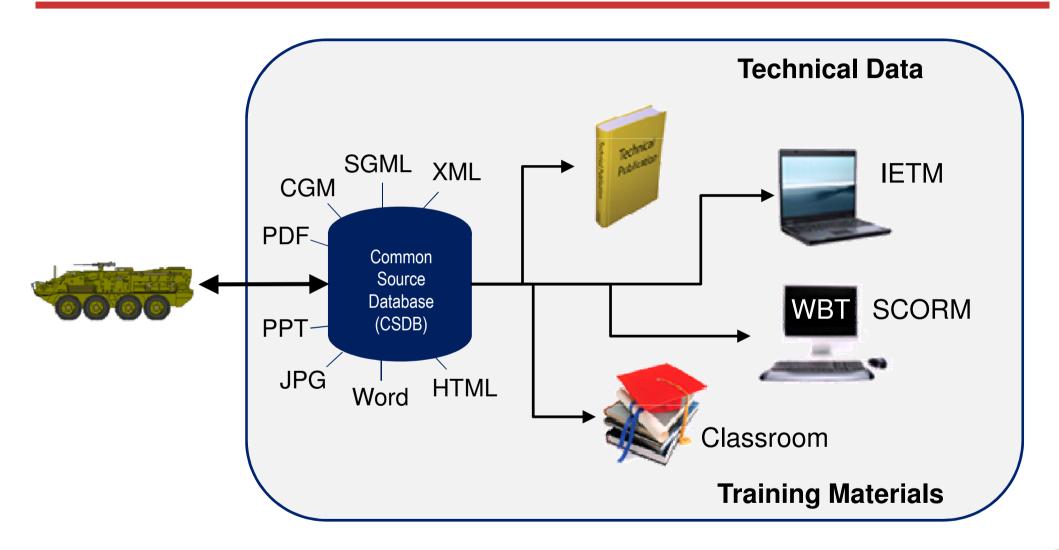


Current State





Objective State





ADL Activities

1

Continuing Focus Areas

SCORM

Repositories and Registries S1000D

2

Collaboration

3

Emerging Technology

Games
Virtual Worlds
Social Networking
Mobile



Defense ADL Action Team

- Serve as <u>Service focal point</u> for ADL practices and procedures
- Provide a forum for <u>discussion and resolution</u> of practical issues in ADL
- Promote <u>collaboration</u>
- Formulate <u>Research and Technology Demonstrations</u> to provide solutions to Service issues
- Provide Service metrics

Defense ADL (DADL) Working Group

- Forum for ADL DOD stakeholders to discuss the latest ADL tools, news, and to share lessons learned and best practices
- Meets every other month
- Over 70 active members



Reaching Our Customers

We provide information in a variety of ways

- www.ADLNet.gov
 - 17,420 Hits in January
- E-mail Newsletters
 - 4,114 Subscribers
- Tweeting
 - 432 Followers & growing
- LinkedIn
 - 421 Members & growing





Learning Opportunities

- Webinar Topics: 1-hour sessions each week
 - Introduction to SCORM
 - SCORM 2004 4th Edition Overview
 - Creating Reusable Content with SCORM 2004
 - Sequencing SCORM 2004 Content
 - Contributing to the ADL Registry Version 1.7
 - Federated Registry Architectures
 - Choosing Authoring Tools
 - Visual Design Principles for Reusable Learning Content
- For details, visit www.ADLNet.gov



ADL Help Desk

Anytime helpdesk@adlnet.gov or

Online Office Hours
Thursdays
1:00 - 3:00 PM EST
www.adlnet.gov



Staff

Instructional systems development (ISD)

Software engineering

Project management

Research and evaluation



ADL Activities

1

Continuing Focus Areas

SCORM

Repositories and Registries S1000D

2

Collaboration

3

Emerging Technology

Games
Virtual Worlds
Social Networking
Mobile



Growth in new technologies

Games

Game industry revenues for 2008 and 2009 totaled \$41 billion

Virtual Worlds

1.5 million users have logged into SecondLife in the last 60 days

Social Networking

- More than 400 million Facebook users
- Directive 09-026, "Responsible and Effective Use of Internet-based Capabilities" signed February 25, 2010

Mobile

- Phones are outselling PC's 3:1
- Android and iPhone users spend ~80-90 min./day using apps

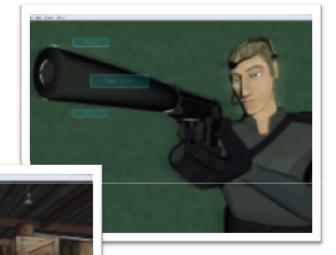


Game Initiatives

Defense Acquisition University (DAU) Mini-Games

- Reinforce Core Competencies
- Single Learning Objectives







Acquisition Proposition

Overall Acquisition Process



US NEXUS Virtual World

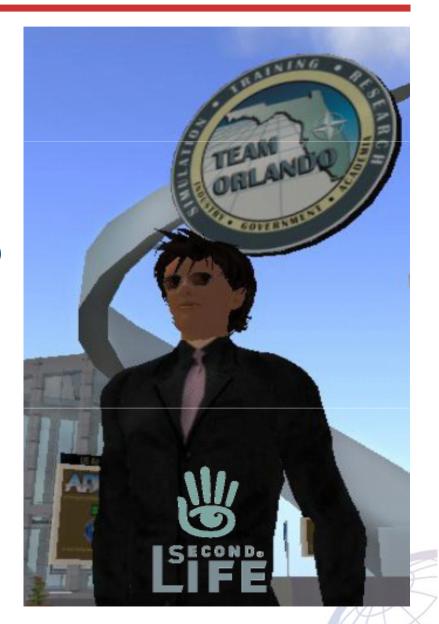
- Co-hosted the DAU virtual world Advanced Concepts Learning Technology Demonstration
 - New delivery method of existing acquisition course
 - 10 players, Orlando
 - 10 players, Alexandria
- Co-sponsoring with US
 Joint Forces Command
 (JFCOM) a web-delivered
 capability





SecondLife

- ADL has space within MiLands
- JADL hosts the Team Orlando Virtual Worlds Governance Board
- In partnership with Navy, experimenting with SecondLife behind the firewall





ADL Help Desk in SecondLife



Thursdays 1:00 - 3:00 PM EST



Immersive learning testing capabilities

Virtual World Testbed

 The test bed is comprised of functioning virtual worlds allowing us to test and compare capabilities for Department of Defense (DoD)

Game Testbed

 The test bed contains many of the games and supporting technologies used by the DoD today



Immersive Learning Technology Lab, Orlando, FL



Portability of content to mobile

 Targeting iPhone and Android platforms currently



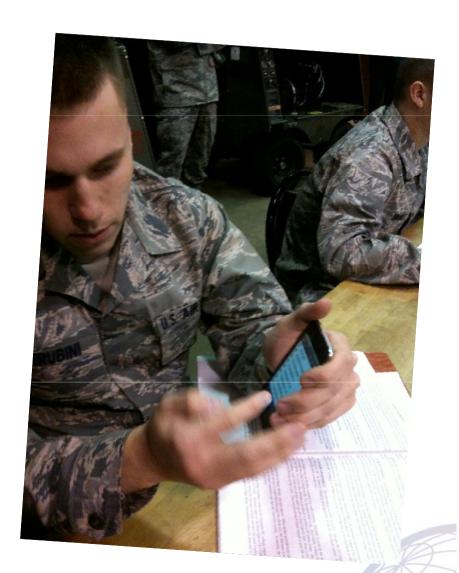
Exploring
 SCORM integration
 to mobile gaming
 content





Mobile activities

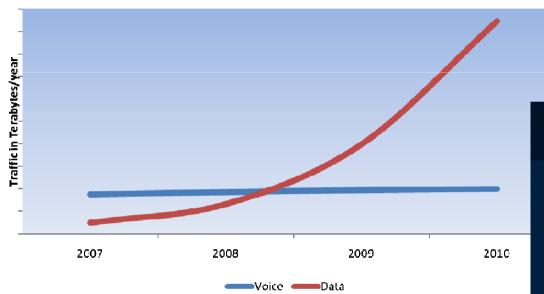
- Tracking initiatives and products
- Gathering documents and resources
- Air Force Education & Training Command Workshop and Consulting
- Office of Naval Research (ONR) grants
- Conferences and workshops
- DAU learning games

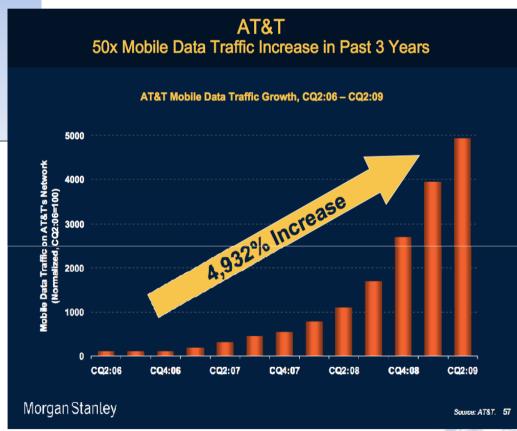




Infrastructure challenges

Mobile Network Traffic (US)







Knowledge at your fingertips





Five moments of learning needs

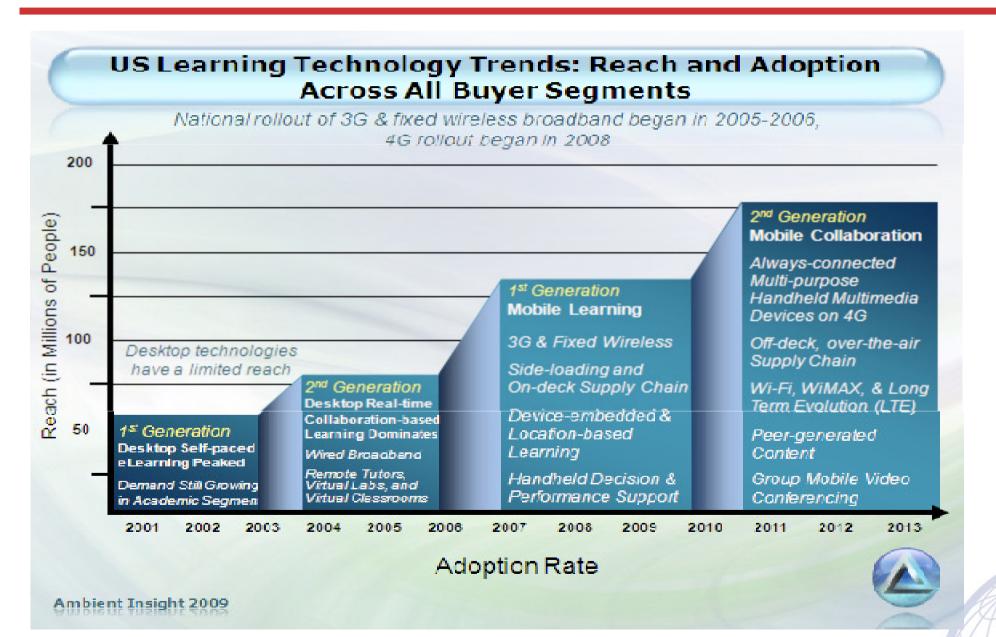
- When learning for the first time
- When wanting to learn more
- When trying to remember
- When things change
- When something goes wrong



Dr. Conrad Gottfredson



How do we leverage the Future?





It is much more than just courses

Mobile Learning Opportunities



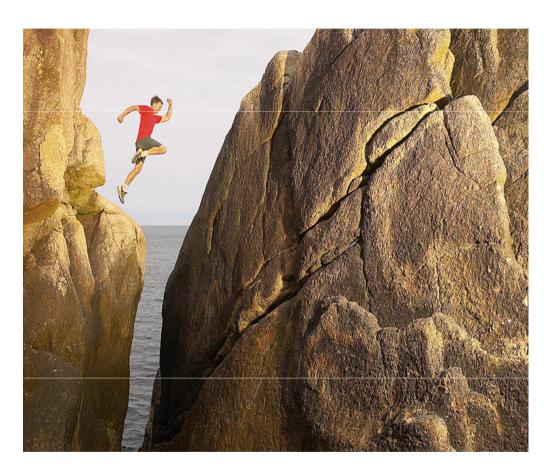


How do we achieve?





Challenges



Discover international mobile activities

Develop standards

Identify research areas needed to achieve potential

Establish mlearning international collaborations



Questions or Comments?

ImplementationFest 2010 10-12 August Rosen Centre, Orlando, FL

Dr. Kristy S. Murray

Director, ADL Co-Labs kristy.murray@us.army.mil +1.407.384.3913

